Docket No. 0649-1323PUS1 Art Unit: 3679 Page 19 of 29

REMARKS

The Applicants thank the Examiner for the consideration given the present application. Claims 6 and 11 were previously cancelled without prejudice to or disclaimer of the subject matter thereof. Claims 1, 2, 4, 5, 7-10, and 12-23 are pending. Claims 1, 8, and 17 are independent. The Examiner is respectfully requested to reconsider the rejections in view of the amendments and remarks set forth herein

Examiner Interview

If, during further examination of the present application, a discussion with the Applicants' Representative would advance the prosecution of the present application, the Examiner is encouraged to contact Carl T. Thomsen, Registration No. 50,786, at 1-703-208-4030 (direct line) at his convenience.

Objection to the Specification

Referring to amendment to the specification made by the Applicants in the response dated June 10, 2010, on page 3 of the latest Office Action (dated July 13, 2011), the Examiner states that incorporation by reference of essential subject matter by reference ... is improper.

In response, the Applicants have cancelled the following paragraph which was added to page 1 the specification on June 10, 2010:

Docket No. 0649-1323PUS1 Art Unit: 3679 Page 20 of 29

CROSS REFERENCE TO RELATED APPLICATION

The present application is a National Phase of International Application No. PCT/JP2004/019480 filed on December 20, 2004, and claims priority under 35 U.S.C. §119 to Japanese Patent Application No. 2003-425960, filed December 22, 2003, the entire contents of which are hereby incorporated by reference.

Accordingly, the reconsideration and withdrawal of the objection are respectfully requested.

In addition, by way of this response, paragraph [0078] has been amended to correct a typographical error. No new matter has been added.

Rejections Under 35 U.S.C. § 103(a)

Claims 1, 2, 4, 5, 7-10 and 12-23 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Yokoyama et al. in view of Kodama et al., Morain (U.S. 4,772,052), and Tsurumi (U.S. 2002/0158465).

These rejections are respectfully traversed.

Amendments to Independent Claims 1, 8, and 17

While not conceding the appropriateness of the Examiner's rejection, but merely to advance prosecution of the instant application, each of independent claims 1, 8, and 17 have been amended herein to recite a combination of elements directed to a resin tube-equipped quick connector, including *inter alia*:

Docket No. 0649-1323PUS1 Art Unit: 3679 Page 21 of 29

"wherein the press-fit undergoing portion of the resin tube into which the press-fitting portion is press-fitted has an internal diameter d3 substantially equal to 3.5, and a portion of the resin tube into which the press-fitting portion is not press-fitted has an internal diameter d1 substantially equal to 2.5, and

wherein a ratio of an axial length L of the press-fitting portion to an inner diameter d4 of the press-fitting portion is substantially equal 7.25 to 1.0."

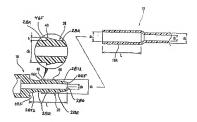
Paragraphs [0031] to [0038] of the Published Application describe the problems associated with conventional resin tubes having large inner diameters.

Paragraph [0039] of the Published Application recites:

"This invention has been made in view of the background of the above circumstances, and it's object is to provide a resin tube-equipped quick connector capable of connecting even such a small-diameter resin tube as described above..."

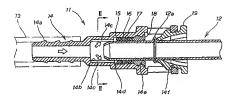
Support for "wherein the press-fit undergoing portion of the resin tube into which the press-fitting portion is press-fitted has an internal diameter d3 substantially equal to 3.5, and a portion of the resin tube into which the press-fitting portion is not press-fitted has an internal diameter d1 substantially equal to 2.5, and

wherein a ratio of an axial length L of the press-fitting portion to an inner diameter d4 of the press-fitting portion is substantially equal 7.25 to 1.0," as set forth in **independent** claims 1, 8, and 17 as amended, can be found, for example, in paragraphs [0095] to [0099] and in FIGS. 2-4 of the Published Application. (FIG. 4 is shown below.)



Regarding the Yokoyama et al. Reference

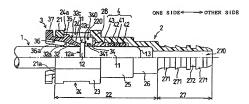
As can be seen in Yokoyama et al. FIG. 1 below,



this document merely discloses a hose 13 with an inner diameter which appears to be constant, and ratio of an axial length of the hose fitting portion 14a to an inner diameter of the hose fitting portion 14a which is **not** equal 7.25 to 1.0.

Regarding the Kodama et al. Reference

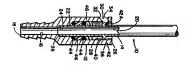
As can be seen in Kodama et al. FIG. 1 below,



this document fails to disclose a hose (resin tube), and merely discloses a ratio of an axial length of the section 27 to an inner diameter of the bore 270 of section 27 which is **not** equal 7.25 to 1.0.

Regarding the Morain Reference

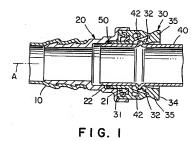
As can be seen in Morain FIG. 3 below,



this document fails to disclose a hose (resin tube), and merely discloses a ratio of an axial length of the passageway portion 16 to an inner diameter of the passageway portion 16 which is **not** equal 7.25 to 1.0.

Regarding the Tsurumi Reference

As can be seen in Tsurumi FIG. 1 below,



this document discloses merely discloses a hose 10 with a large inner diameter, and a ratio of an axial length of the hose fitting portion of housing 20 to an inner diameter of the hose fitting portion of housing 20 which is **not** equal 7.25 to 1.0.

Regarding References cited in Previous Office Actions

Washizu '216, Nishiyama et al. '225, Ostrander et al. '383, and Bock '998 were cited by the Examiner in previous Office Actions.

However, no combination of Washizu '216, Nishiyama et al. '225, Ostrander et al. '383, and Bock '998 can make up for the deficiencies of Yokoyama et al., Kodama et al., Morain, and Tsrumi to teach or suggest the combination of elements now set forth in each of independent claims 1, 8, and 17.

Docket No. 0649-1323PUS1 Art Unit: 3679 Page 25 of 29

As the Examiner knows well, a *prima facie* case of obviousness must be established in order for a rejection under 35 U.S.C. 103(a) to be proper.

M.P.E.P. section 2143 sets forth examples of basic requirements of a prima facie case of obviousness:

"The Supreme Court in KSR International Co. v. Teleflex Inc., 550 U.S., , 82 USPQ2d 1385, 1395-97 (2007) identified a number of rationales to support a conclusion of obviousness which are consistent with the proper "functional approach" to the determination of obviousness as laid down in Graham. The key to supporting any rejection under 35 U.S.C. 103 is the clear articulation of the reason(s) why the claimed invention would have been obvious. The Supreme Court in KSR noted that the analysis supporting a rejection under 35 U.S.C. 103 should be made explicit."

One of the exemplary rationales that may support a conclusion of obviousness in accordance with the KSR decision is set forth in M.P.E.P. 2143 (C). This exemplary rational relates to "use of known technique to improve similar devices (methods, or products) in the same way."

Referring to M.P.E.P. 21433 (C), the following is stated:

"To reject a claim based on this rationale, Office personnel must resolve the *Graham* factual inquiries. Then, Office personnel must articulate the following:

- (1) a finding that the prior art contained a "base" device (method, or product) upon which the claimed invention can be seen as an "improvement;"
- (2) a finding that the prior art contained a "comparable" device (method, or product that is not the same as the base device) that has been improved in the same way as the claimed invention;
- (3) a finding that one of ordinary skill in the art could have applied the known "improvement" technique in the same way to the "base" device

Docket No. 0649-1323PUS1 Art Unit: 3679 Page 26 of 29

(method, or product) and the results would have been predictable to one of ordinary skill in the art; and

(4) whatever additional findings based on the Graham factual inquiries may be necessary, in view of the facts of the case under consideration, to explain a conclusion of obviousness.

The rationale to support a conclusion that the claim would have been obvious is that a method of enhancing a particular class of devices (methods, or products) has been made part of the ordinary capabilities of one skilled in the art based upon the teaching of such improvement in other situations. One of ordinary skill in the art would have been capable of applying this known method of enhancement to a "base" device (method, or product) in the prior art and the results would have been predictable to one of ordinary skill in the art. The Supreme Court in KSR noted that if the actual application of the technique would have been beyond the skill of one of ordinary skill in the art, then using the technique would not have been obvious. KSR, 550 U.S. at ____, \$2 USPQ2d at 1396. If any of these findings cannot be made, then this rationale cannot be used to support a conclusion that the claim would have been obvious to one of ordinary skill in the art." (emphasis added)

Regarding item (1) above, the Examiner appears to consider Yokoyama et al. as representing the prior art containing a "base" device upon which the claimed invention can be seen as an "improvement."

Regarding item (2) above, the Examiner appears to consider the combination of Kodama et al., Morain, and Tsurumi as representing the prior art containing a "comparable" device that has been improved in the same way as the claimed invention.

However as discussed above, the combination of the cited references:

 Fails to recognize the problems with conventional devices as described in paragraph [0039] which led the Applicants to conceive of and reduce to practice the present application, and • Fails to teach or suggest "wherein the press-fit undergoing portion of the resin tube into which the press-fitting portion is press-fitted has an internal diameter d3 substantially equal to 3.5, and a portion of the resin tube into which the press-fitting portion is not press-fitted has an internal diameter d1 substantially equal to 2.5, and wherein a ratio of an axial length L of the press-fitting portion to an inner diameter d4 of the press-fitting portion is substantially equal 7.25 to 1.0," as set forth in independent claims 1, 8, and 17.

The Applicants respectfully submits that the Examiner has failed to articulate at least items (1) and (2) above as is required.

In view of the above, the Applicants respectfully submit that the Examiner has failed to establish a *prima facie* case of obviousness.

At least for the reasons explained above, Applicants respectfully submit that the combination of elements as set forth in each of independent claims 1, 8, and 17 is not disclosed or made obvious by the prior art of record, including Yokoyama et al., Kodama et al., Morain, Tsurumi, Washizu '216, Nishiyama et al. '225, Ostrander et al. '383, and Bock '998.

Therefore, independent claims 1, 8, and 17 are in condition for allowance.

Dependent Claims

All dependent claims are in condition for allowance due to their dependency from allowable independent claims, or due to the additional novel features set forth therein.

Application No. 10/583,966 Amendment dated September 7, 2011 Reply to Office Action of July 13, 2011 Docket No. 0649-1323PUS1 Art Unit: 3679 Page 28 of 29

All pending claims are now in condition for allowance. Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. §103(a) are respectfully requested.

Docket No. 0649-1323PUS1 Art Unit: 3679 Page 29 of 29

CONCLUSION

It is believed that a full and complete response has been made to the outstanding Office

Action, and that the present application is in condition for allowance.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, he is invited to telephone Carl T. Thomsen (Reg. No. 50,786) at (703) 208-4030 (direct line). If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17, particularly extension of time fees.

Dated: September 7, 2011 Respectfully submitted,

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